

REMARKS

Reconsideration of the application in light of the amendments and the following remarks is respectfully requested.

Status of the Claims

Claims 1-18, 20-26 and 28-32 are pending. Claim 27 is canceled by the above amendment without prejudice, or disclaimer of the subject matter contained therein. Claim 19 has been cancelled by a previous amendment. Claims 1, 11, 17, 20, 23, 26 and 28 have been amended. No new matter has been added.

Rejection Under 35 U.S.C. § 102

Claims 1-13, 17, and 23-26 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,192,109 to Amrany et al. ("Amrany"). The Examiner contends that Amrany discloses all the features recited in claims 1-13, 17 and 23-26 including determining a switch hook status.

Amended claim 1 now recites "determining a status of a telephone hookswitch by measuring a current through the digital subscriber line." Amended independent claims 11, 17, 23 and 26 now also recite the step of determining hookswitch status by measuring a current through a digital subscriber line. This feature is supported in the Specification at, generally, page 14, lines 6-10.

In contrast, Amrany discloses detecting the switch hook status by measuring the impedance of the transmission line. Amrany discloses that the "invention utilizes the fact that Off-Hook unfiltered phones, compared to low-pass filtered phones, produce significant changes in the impedance of the transceiver." Amrany further discloses "[w]hen an unfiltered phone is in the Off-Hook position, the change in impedance is detected" (Amrany, column 6, lines 36-48.) "Direct impedance measurements are conducted by manipulating switch 102 and measuring the representative output voltage at the output of the analog to digital converter 104" (Amrany, column 6, lines 56-59.) Depending on the measured impedance value, a digital signal processor will consider all phone equipment as either on-hook or off-hook. (Amrany, column 6, line 53 through column 7, line 62.) Amrany does not disclose the feature of determining hookswitch status

Claim 21 depends from amended claim 20, and recites its own features along with all the features of its base claim. The combination of Takatori, Amrany and Nimmagadda does not disclose, or suggest, the features set forth in amended claim 20, as discussed above. Therefore, Applicant submits that claim 21 is patentable over the combination of Takatori, Amrany and Nimmagadda for at least the same reasons as amended claim 20. Withdrawal and reconsideration of the rejection is requested.

Claim 27 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Takatori in view of Goldstein and further in view of U.S. Patent No. 6,111,936 to Bremer. Claim 27 has been cancelled and, thus, the rejection is rendered moot.

Claims 28-32 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Nimmagadda in view of Amrany. The Examiner contends that Nimmagadda discloses most of the features of claim 28. However, the Examiner acknowledges that Nimmagadda does not disclose determining the off-hook state by detecting operational changes in a digital subscriber line, as recited in claim 28. The Examiner cites Amrany as disclosing “determining hook state using changes in signal features (i.e., modem operation).” (Detailed Acton, page 10, item 35.) The Examiner states that it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine Nimmagadda and Amrany to achieve the invention of claim 28.

Amended independent claim 28 now recites “determining the off-hook state by detecting operational changes in a digital subscriber line modem, including the step of detecting a current flowing through the line.” As discussed above, Amrany and, thus, the combination of Nimmagadda and Amrany neither discloses nor suggests determining the off-hook state by “detecting a current flowing through the line.” Therefore, the combination of Nimmagadda and Amrany does not result in the invention of amended claim 28.

The Examiner contends that the combination of Nimmagadda and Amrany also discloses or suggests the features of claims 29-32. Claims 29-32 depend from amended claim 28, and recite their own features along with all the features of their base claim and any intervening claims. The combination of Nimmagadda and Amrany does not disclose, or suggest, the features set forth in amended claim 28, as discussed above. Therefore, Applicant submits that claims 29-32 are

